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1: Biotechnology (N Y). 1994 Aug;12(8):813-8.

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A prototype recombinant vaccine against respiratory syncytial virus and parainfluenza virus type 3.

Du RP, Jackson GE, Wyde PR, Yan WY, Wang Q, Gisonni L, Sanhueza SE, Klein MH, Ewasyshyn ME.

Connaught Centre for Biotechnology Research, Willowdale, Ontario, Canada.

We have produced a genetically-engineered chimeric protein composed of the external domains of the respiratory syncytial virus (RSV) fusion (F) protein and the parainfluenza virus type 3 (PIV-3) hemagglutinin-neuraminidase (HN) protein in insect cells using the baculovirus expression system. The yield of the soluble chimeric FRSV-HNPIV-3 protein could be increased approximately 2-fold by using Trichoplasia ni (High Five) insect cells in place of Spodoptera frugiperda (Sf9) for expression. The chimeric protein, purified from the supernatant of baculovirus-infected High Five cells by immunoaffinity chromatography was correctly processed at the F2-F1 proteolytic cleavage site. Immunochemical analysis of the chimera with a panel of anti-F and anti-HN monoclonal antibodies suggested that the antigenicity of the major F and HN neutralization epitopes of the chimeric protein was preserved. Immunization of cotton rats with two 1 or 10 micrograms doses of the chimeric protein adsorbed to aluminum phosphate elicited strong PIV-3 specific HAI responses as well as PIV-3 and RSV specific neutralizing antibodies, and at either dose completely protected against challenge with live RSV and PIV-3.

PMID: 7765021 [PubMed - indexed for MEDLINE]

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